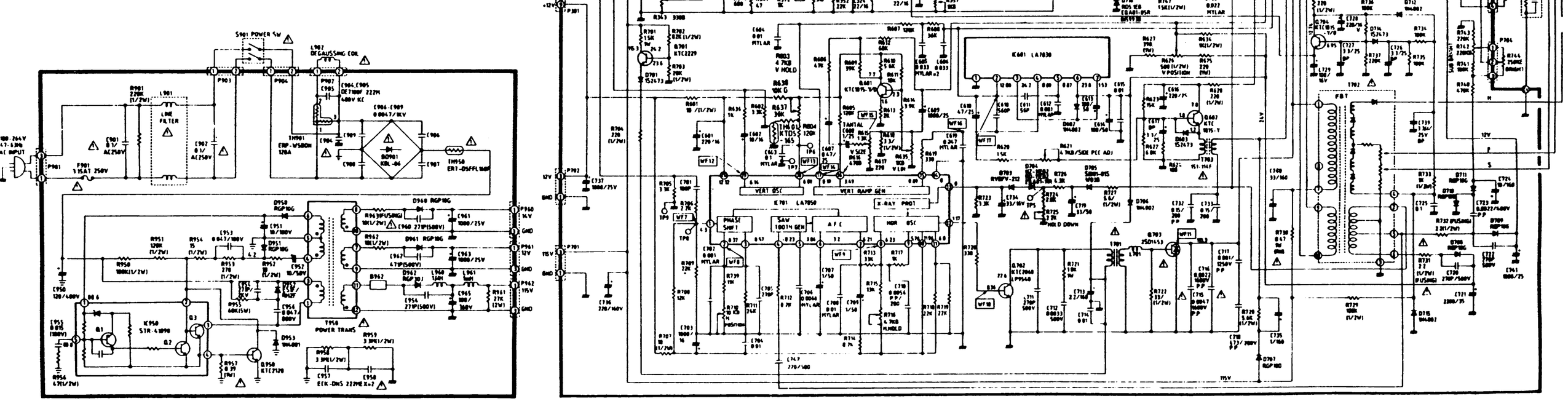
SCHEMATIC DIAGRAM

CA-3 CHASSIS SCHEMATIC DIAGRAM

IMPORTANT SAFETY NOTICE

THE COMPONENT IDENTIFIED BY SHADING OR THE INTERNATIONAL SYMBOL ⚠ ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THOSE CRITICAL COMPONENTS.

NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS ARE 1/8W, ±5% VALUES IN OHMS G= ±2% K=1,000 M=1,000,000
2. ALL CAPACITORS ARE SHOWN IN μF P=10⁻¹²F
3. COIL UNIT OF INDUCTANCE IS μH

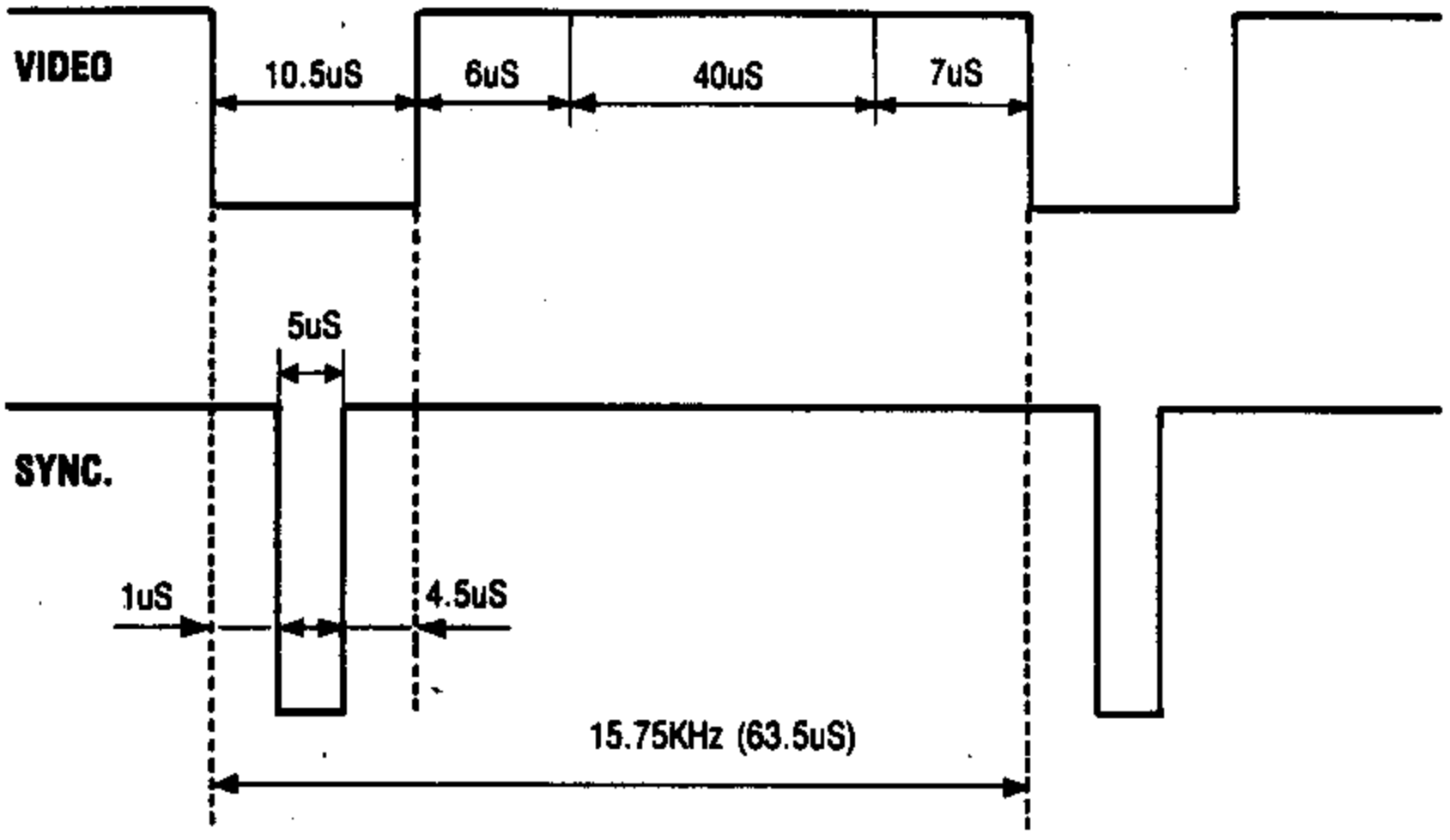




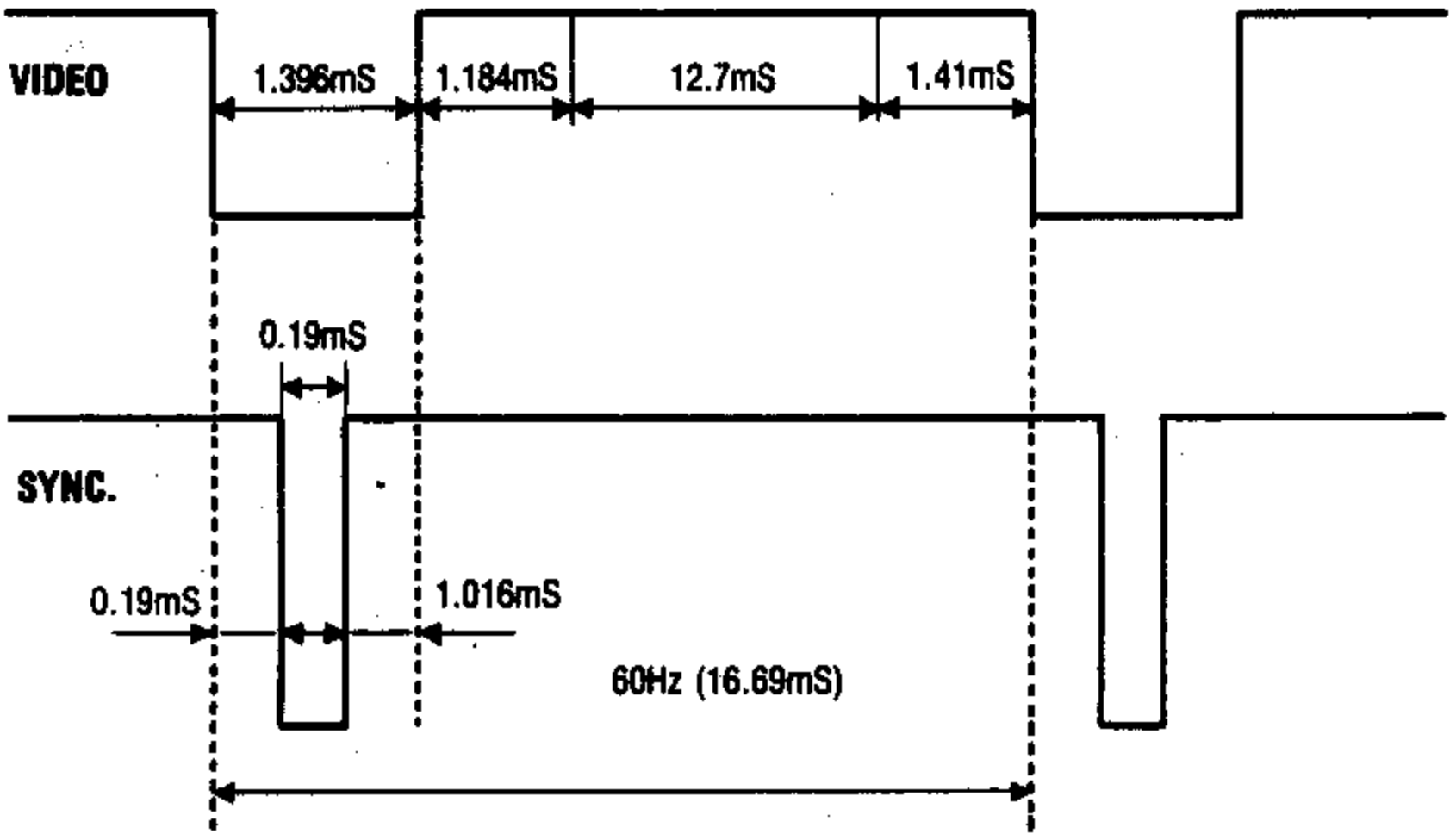
P/N 484-257A

TIMING CHART

HORIZONTAL TIMING



VERTICAL TIMING

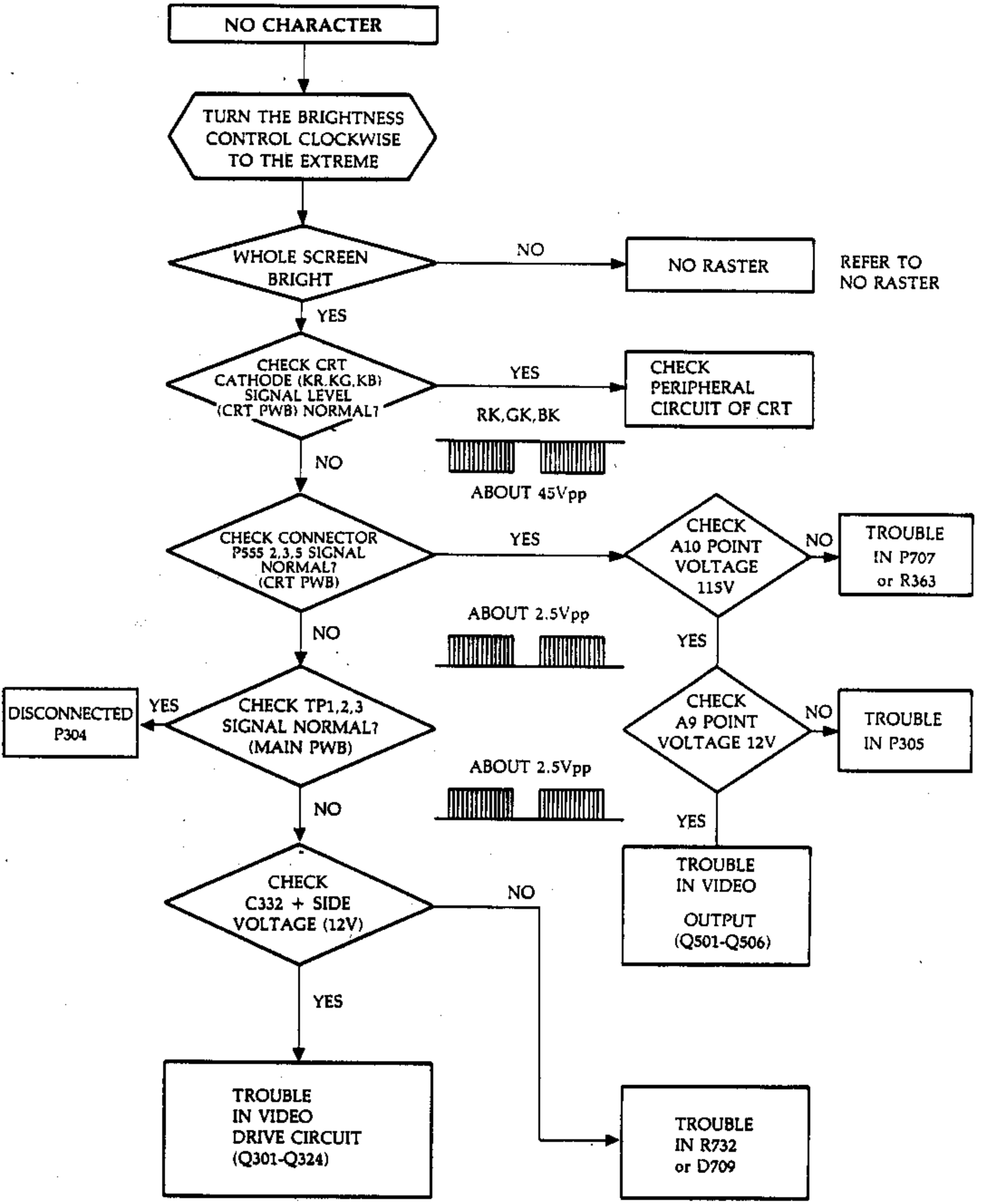


* NOTES

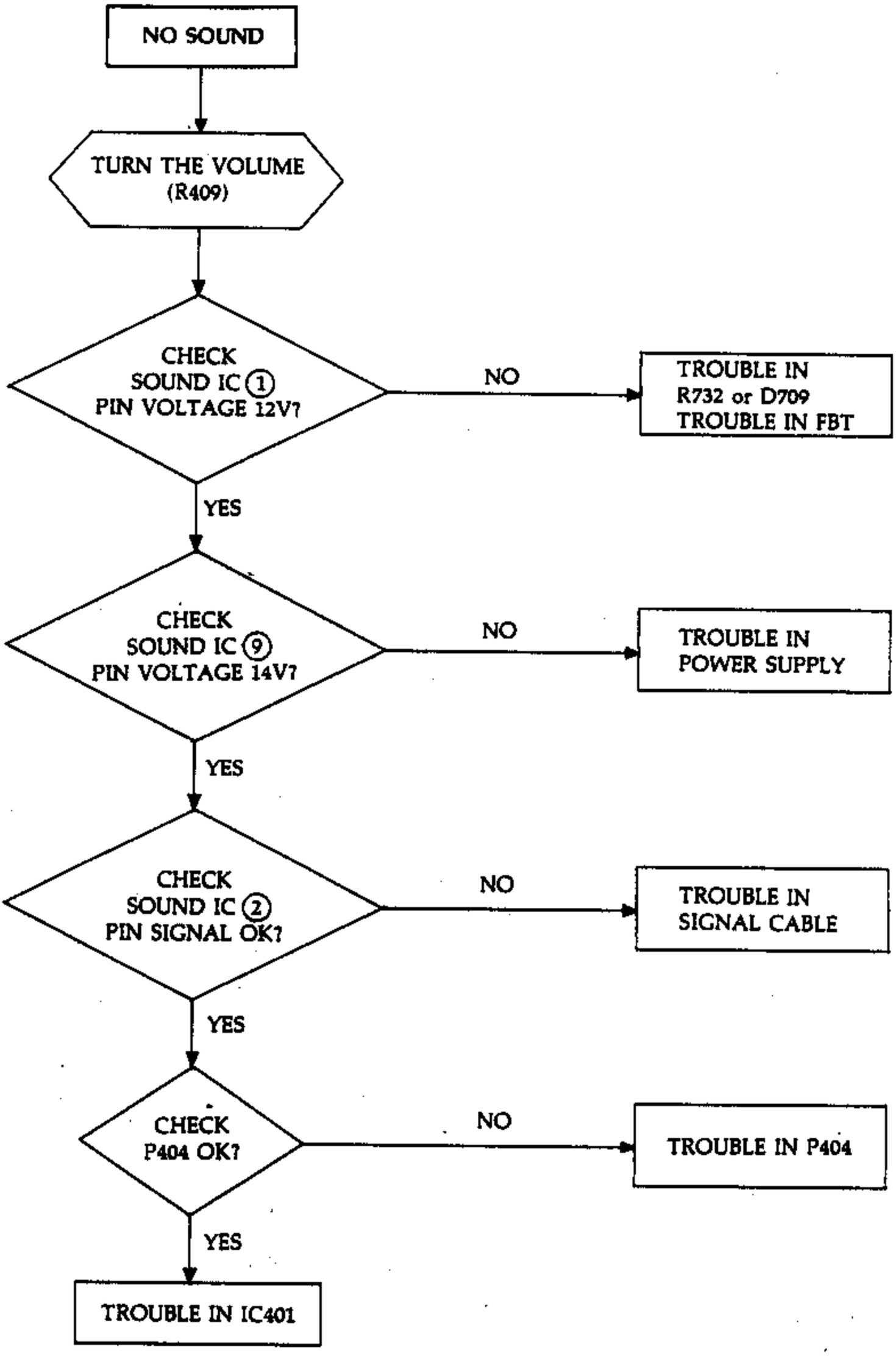
1. SIGNAL INPUT LEVEL: 1Vp-p
2. TIME TOLERANCE: ±0.1%
3. THE MONITOR IS ADJUSTED ACCORDING TO THE ABOVE TIMINGS AND FREQUENCY.

TROUBLE SHOOTING CHART

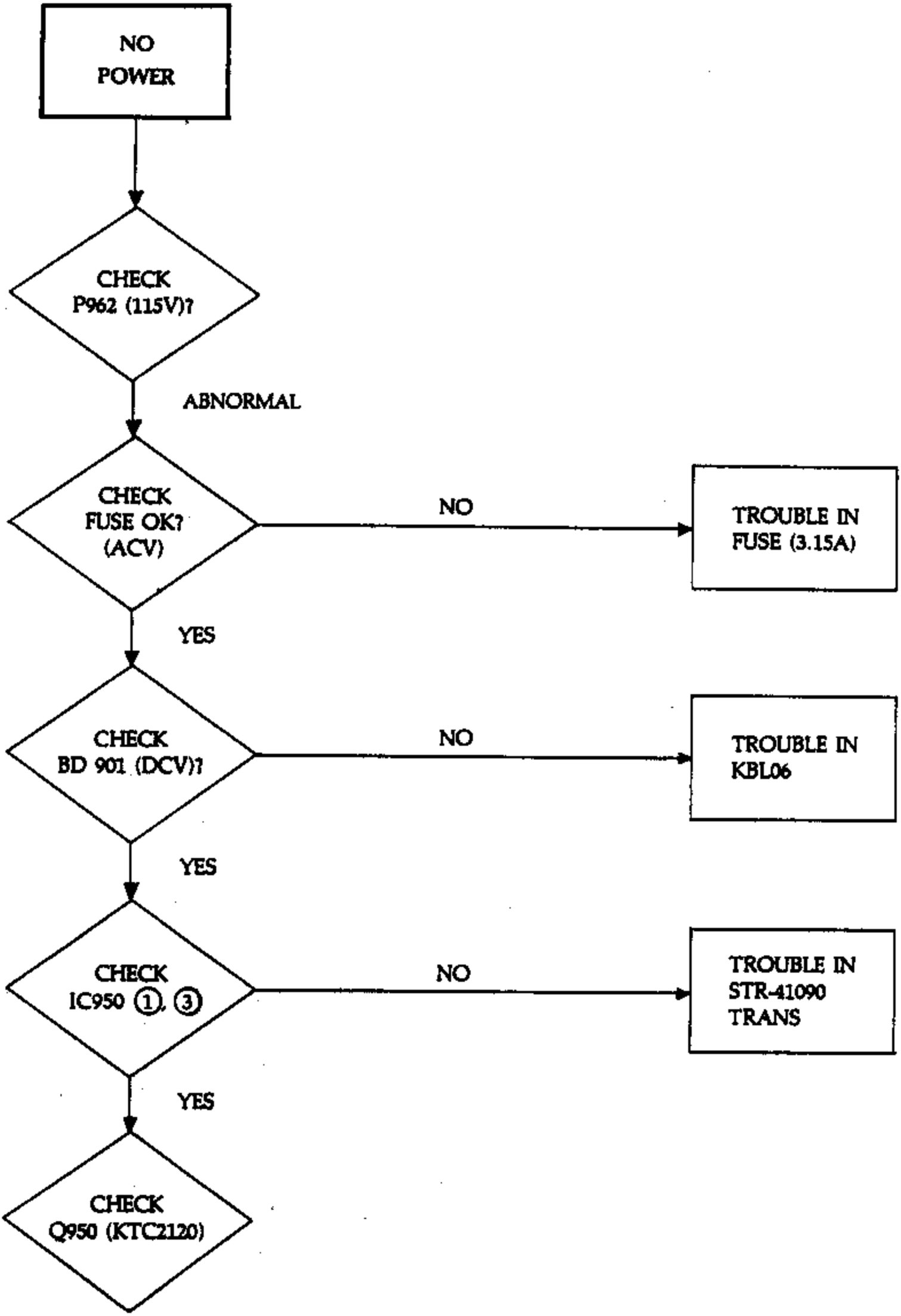
A. NO CHARACTER



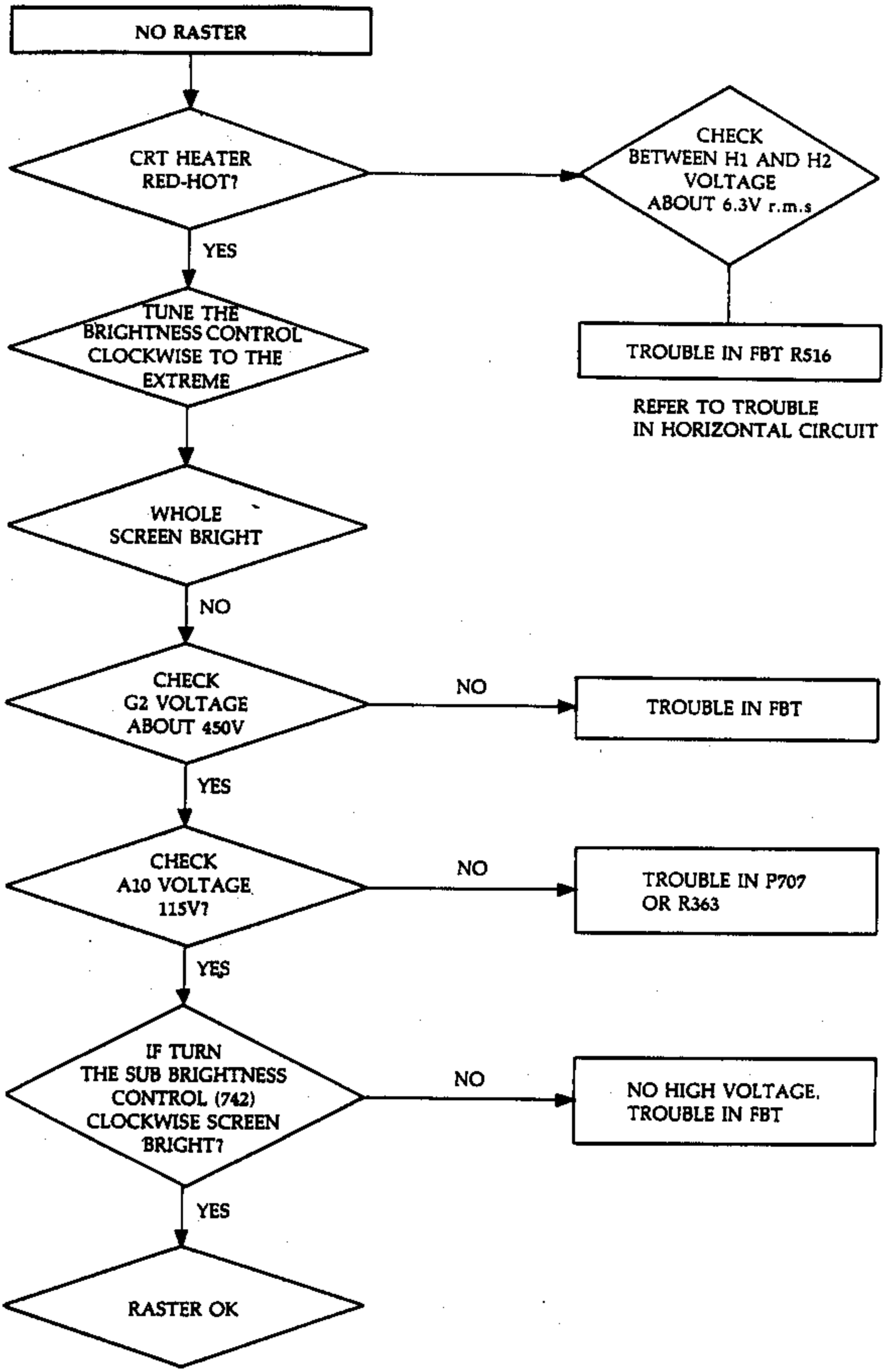
K. NO SOUND


NO SOUND
TURN THE VOLUME (R409)
CHECK SOUND IC ① PIN VOLTAGE 12V?
NO
TROUBLE IN R732 or D709 TROUBLE IN FBT
YES
CHECK SOUND IC ⑨ PIN VOLTAGE 14V?
NO
TROUBLE IN POWER SUPPLY
YES
CHECK SOUND IC ② PIN SIGNAL OK?
NO
TROUBLE IN SIGNAL CABLE
YES
CHECK P404 OK?
NO
TROUBLE IN P404
YES
TROUBLE IN IC401

B. NO POWER


NO POWER
CHECK P962 (115V)?
ABNORMAL
CHECK FUSE OK? (ACV)
NO
TROUBLE IN FUSE (3.15A)
YES
CHECK BD 901 (DCV)?
NO
TROUBLE IN KBL06
YES
CHECK IC950 ①, ③
NO
TROUBLE IN STR-41090 TRANS
YES
CHECK Q950 (KTC2120)

C. NO RASTER


NO RASTER
CRT HEATER RED-HOT?
YES
CHECK BETWEEN H1 AND H2 VOLTAGE ABOUT 6.3V r.m.s
TROUBLE IN FBT R516
REFER TO TROUBLE IN HORIZONTAL CIRCUIT
TUNE THE BRIGHTNESS CONTROL CLOCKWISE TO THE EXTREME
WHOLE SCREEN BRIGHT
NO
CHECK G2 VOLTAGE ABOUT 450V
NO
TROUBLE IN FBT
YES
CHECK A10 VOLTAGE 115V?
NO
TROUBLE IN P707 OR R363
YES
IF TURN THE SUB BRIGHTNESS CONTROL (742) CLOCKWISE SCREEN BRIGHT?
NO
NO HIGH VOLTAGE. TROUBLE IN FBT
YES
RASTER OK

C-1. TROUBLE IN HORIZ OUT CIRCUIT

TROUBLE IN HORIZ. OUT PUT CIRCUIT (NO RASTER)

CHECK FBT NO.7 POINT VOLTAGE (115V)

YES

NO

CHECK R730 OK?

NO

REPLACE R730

R730 OK?

NO

TROUBLE IN Q703 SHORT

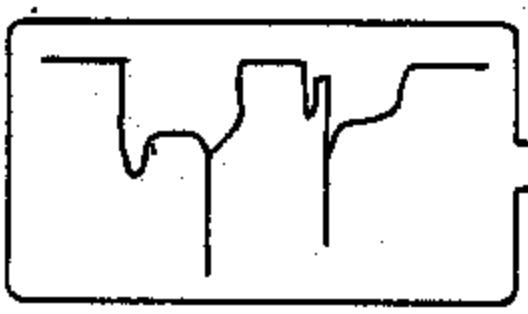
ABNORMAL

CHECK POWER SUPPLY UNIT NORMAL

NO

TROUBLE IN POWER SUPPLY

NORMAL?

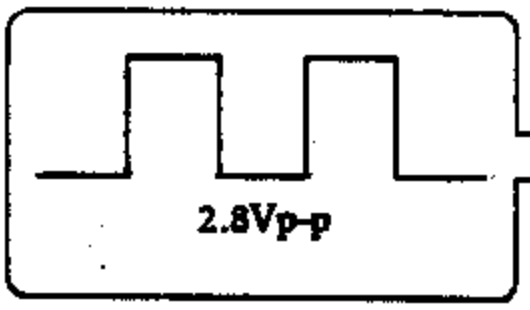


CHECK Q703 BASE WAVE FORM NORMAL?

YES

TROUBLE IN FBT

NO



CHECK Q702 BASE WAVE FORM NORMAL?

YES

CHECK C713 + SIDE VALTAGE 23V?

YES

TROUBLE IN Q702, T701

NO

TROUBLE IN Q701, R704

NO

CHECK IC701 (10) VOLTAGE ABOUT 12V?

NO

TROUBLE IN D702 TROUBLE IN POWER SUPPLY

REFER TO TROUBLE IN POWER SUPPLY

YES

WHEN MAKE SHORTED CIRCUIT BETWEENIC (13) AND GROUND APEAR WAVE FORM ON IC701 (12) ?

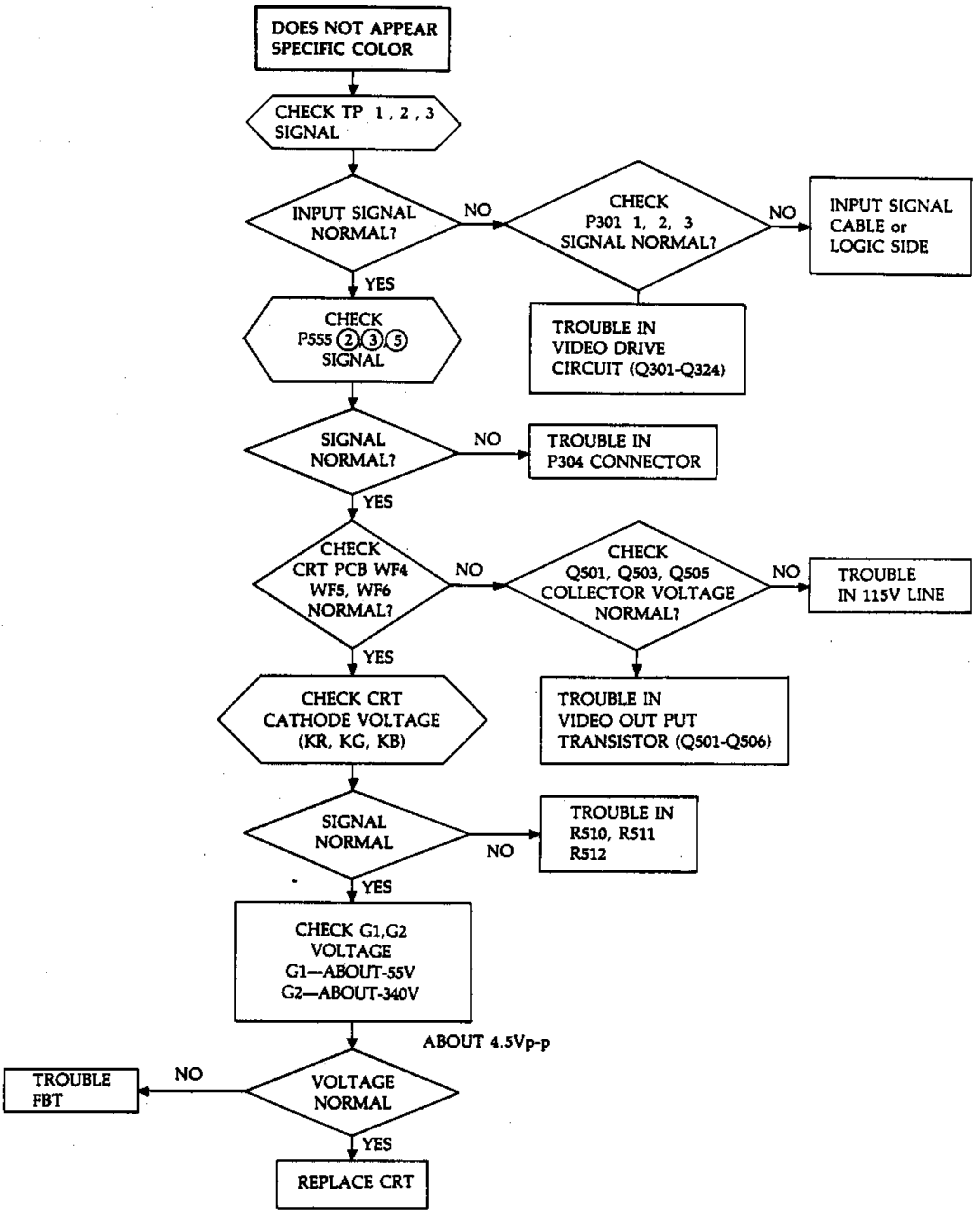
NO

TROUBLE IN IC701

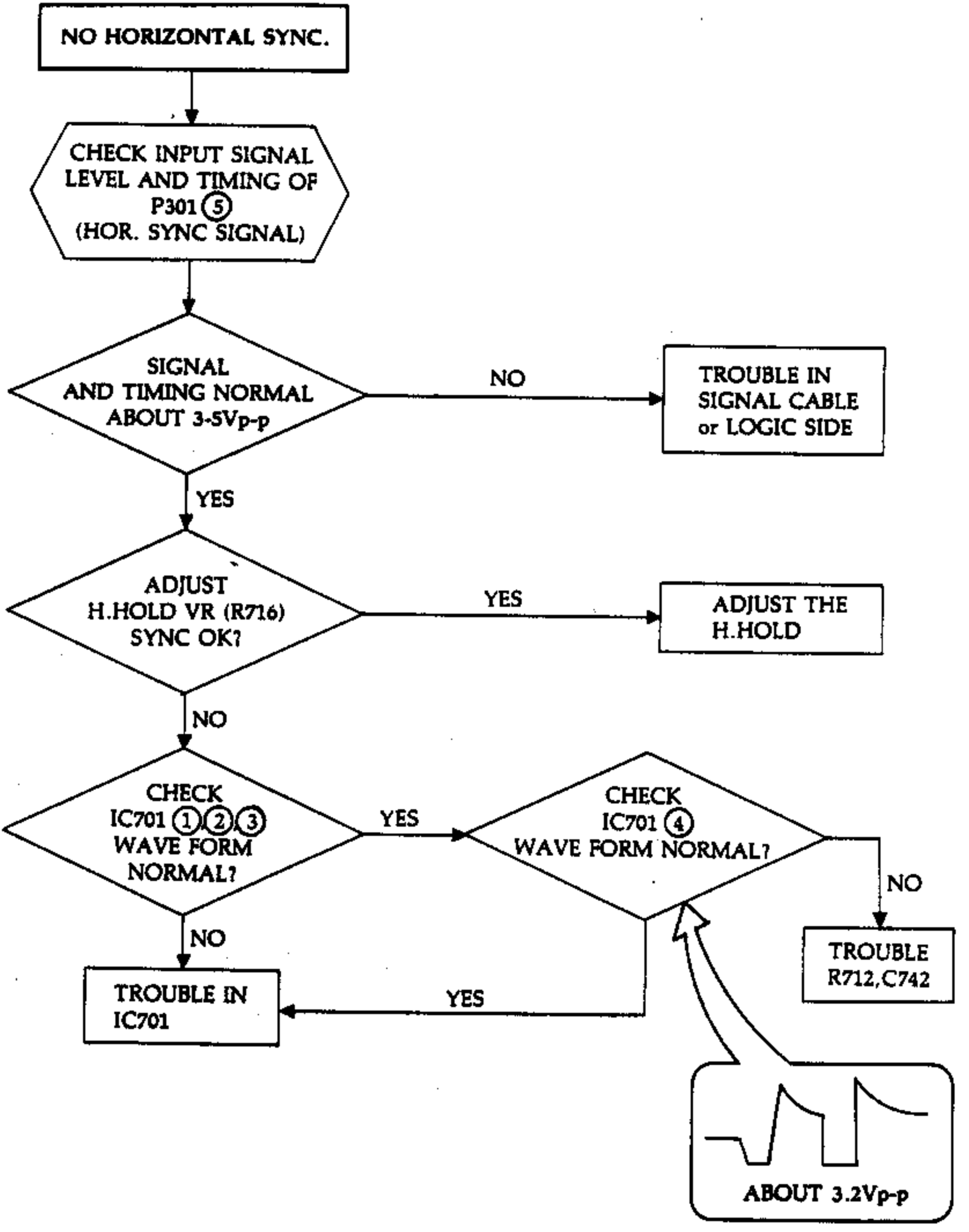
YES

TROUBLE IN IC101 HIGH VOLTAGE CIRCUIT or SHUT DOWN CIRCUIT

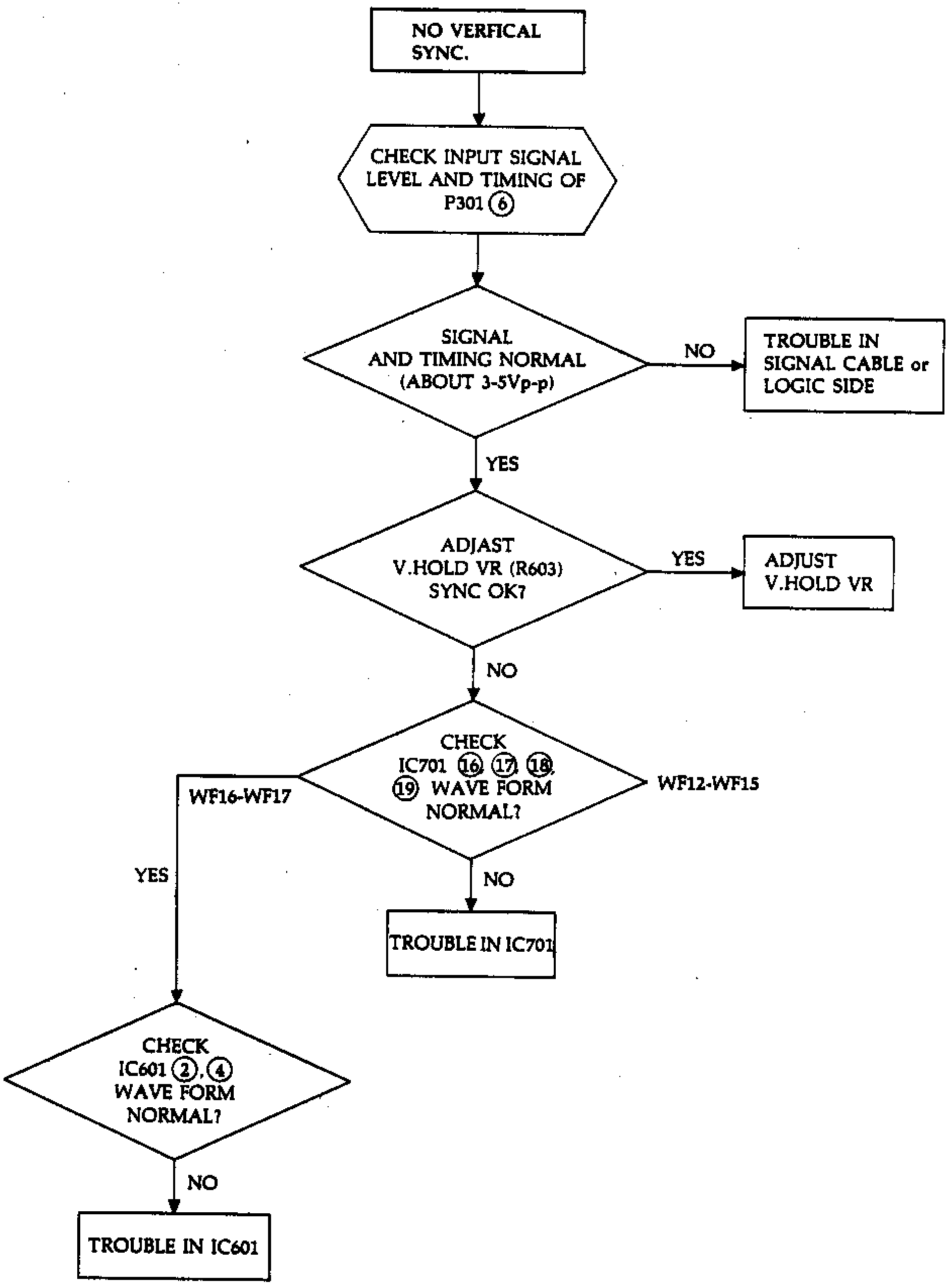
D.


DOES NOT APPEAR SPECIFIC COLOR
CHECK TP 1 , 2 , 3 SIGNAL
INPUT SIGNAL NORMAL?
NO
CHECK P301 1, 2, 3 SIGNAL NORMAL?
NO
INPUT SIGNAL CABLE or LOGIC SIDE
YES
CHECK P555 ② ③ ⑤ SIGNAL
TROUBLE IN VIDEO DRIVE CIRCUIT (Q301-Q324)
SIGNAL NORMAL?
NO
TROUBLE IN P304 CONNECTOR
YES
CHECK CRT PCB WF4 WF5, WF6 NORMAL?
NO
CHECK Q501, Q503, Q505 COLLECTOR VOLTAGE NORMAL?
NO
TROUBLE IN 115V LINE
YES
TROUBLE IN VIDEO OUT PUT TRANSISTOR (Q501-Q506)
CHECK CRT CATHODE VOLTAGE (KR, KG, KB)
SIGNAL NORMAL
NO
TROUBLE IN R510, R511 R512
YES
CHECK G1,G2 VOLTAGE G1—ABOUT-55V G2—ABOUT-340V
ABOUT 4.5Vp-p
VOLTAGE NORMAL
NO
TROUBLE FBT
YES
REPLACE CRT

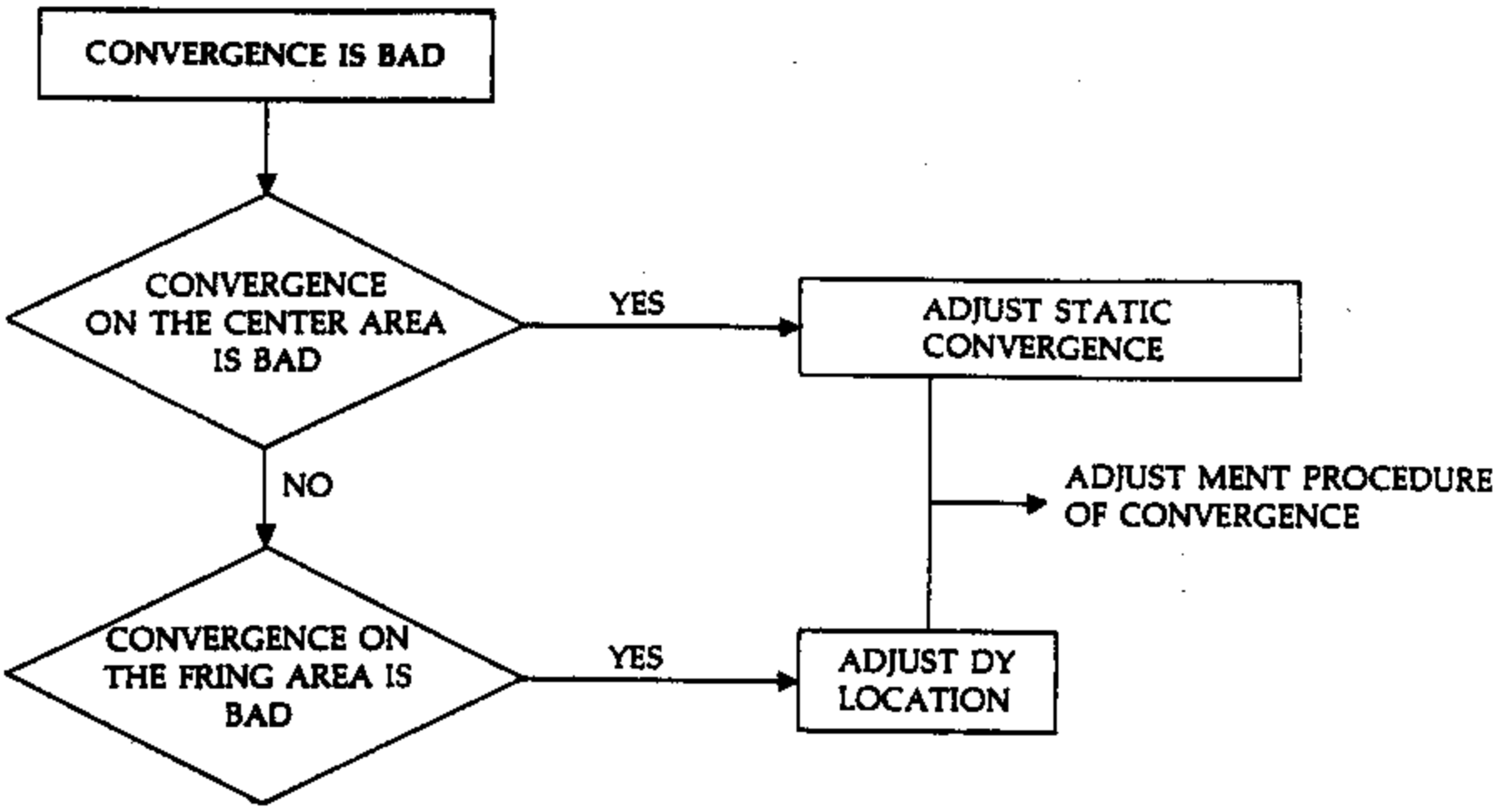
E. NO HORIZONTAL SYNC.



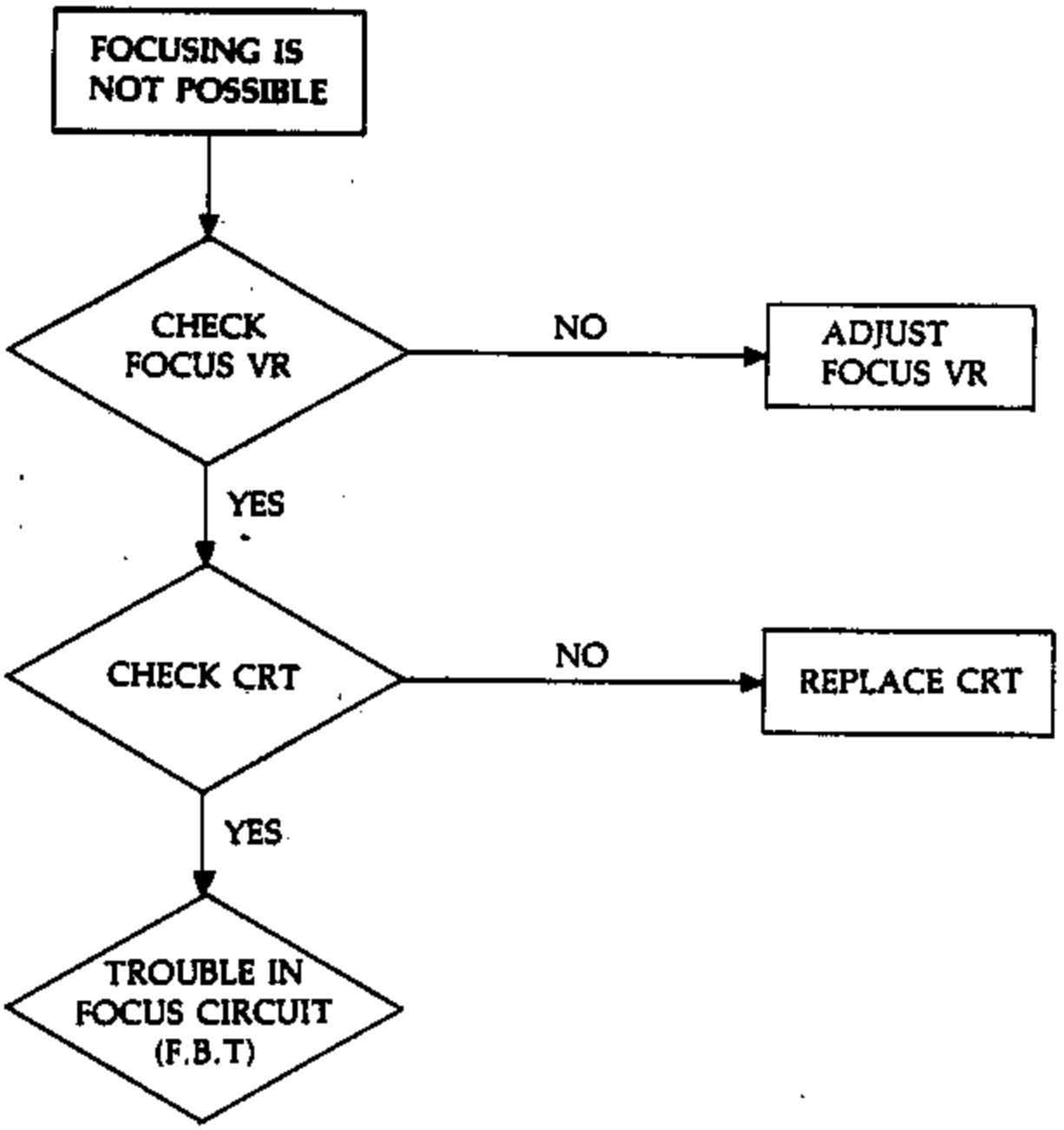
F. NO VERTICAL SYNC.



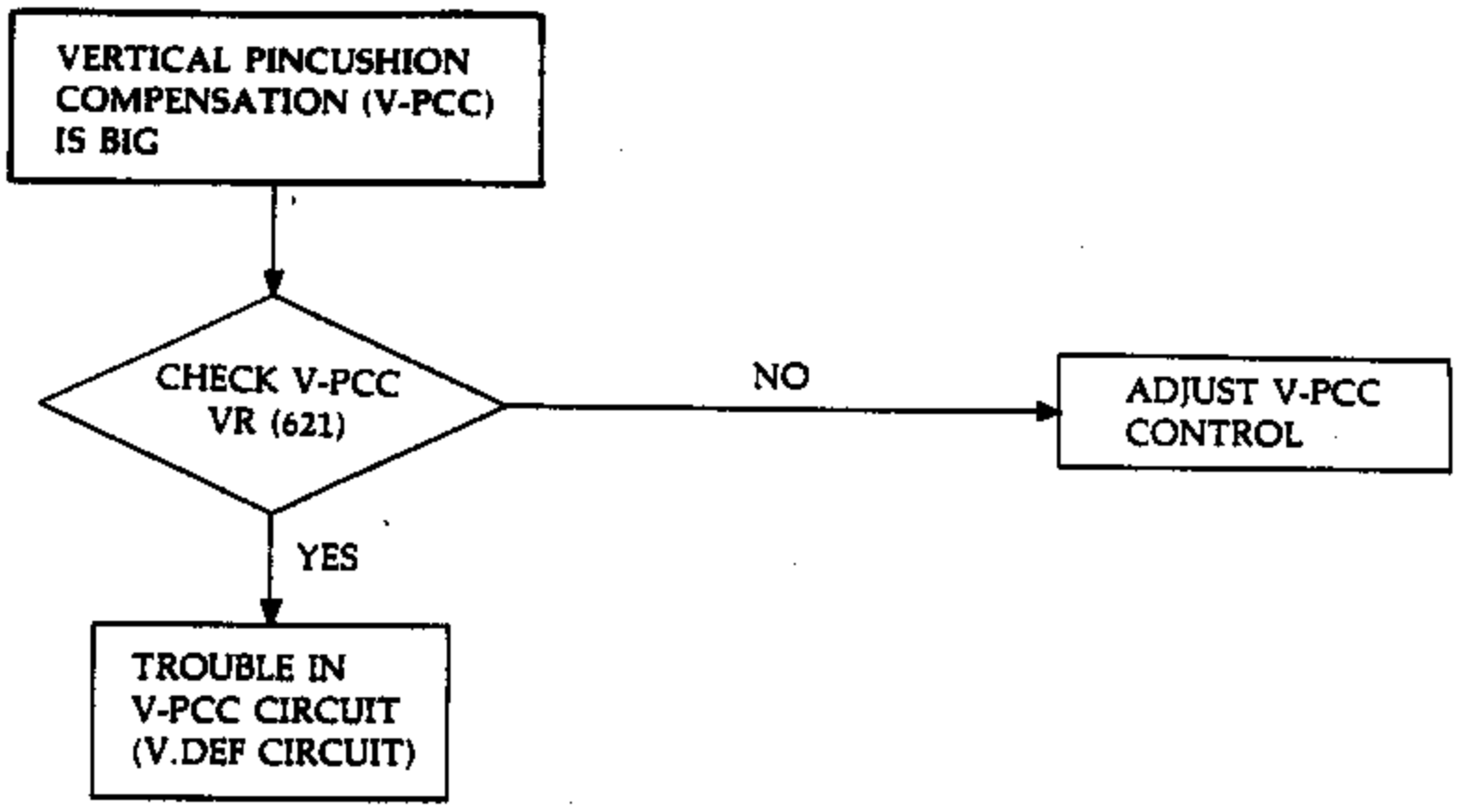
G. CONVERGENCE IS BAD



H. FOCUSING PROBLEM



I. VERTICAL PIN COMPENSATION (V.PCC) IS BIG



J. HORIZONTAL LINE

